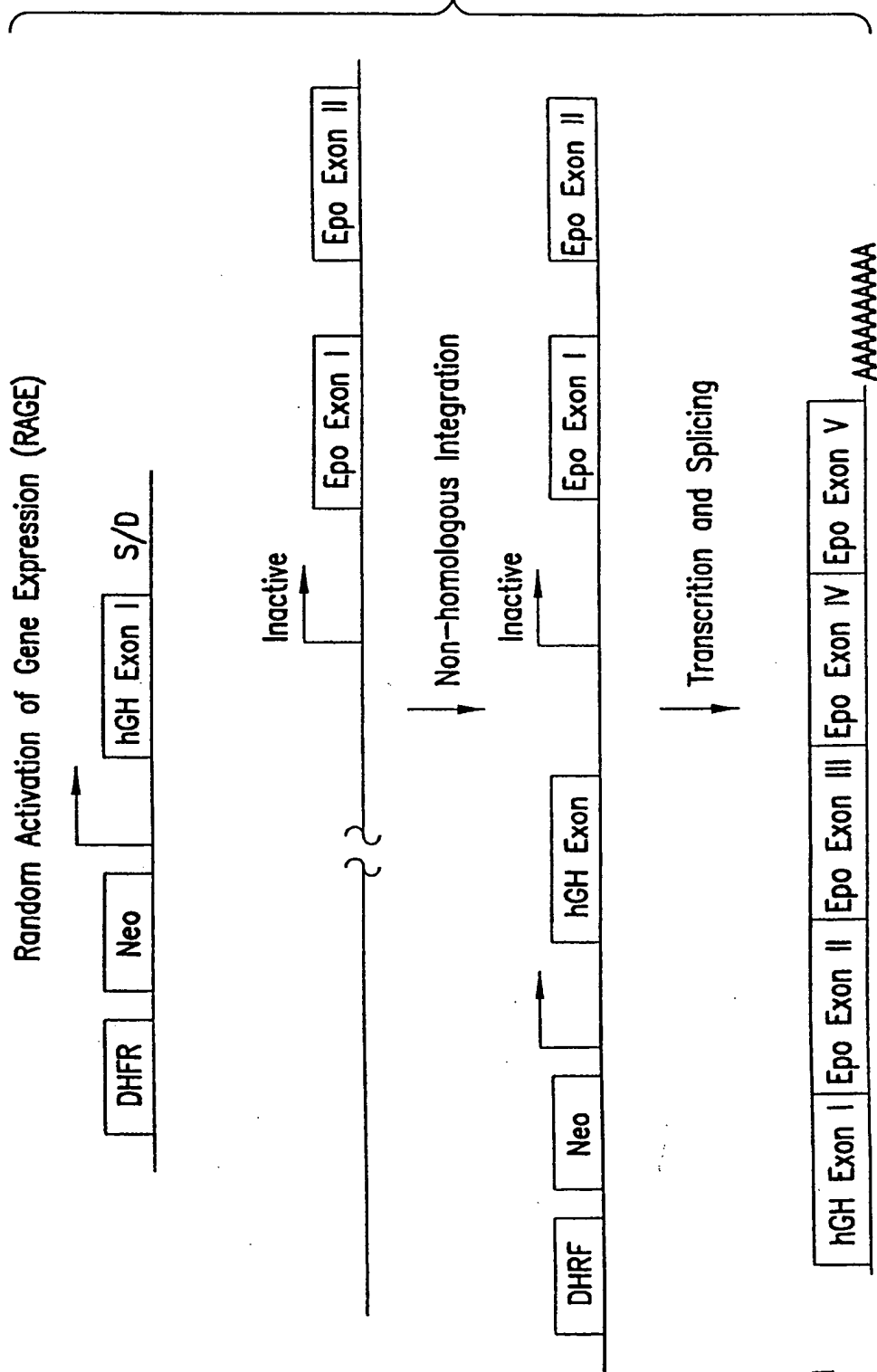
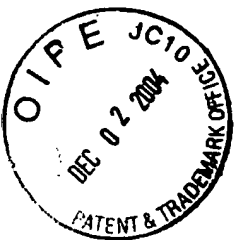


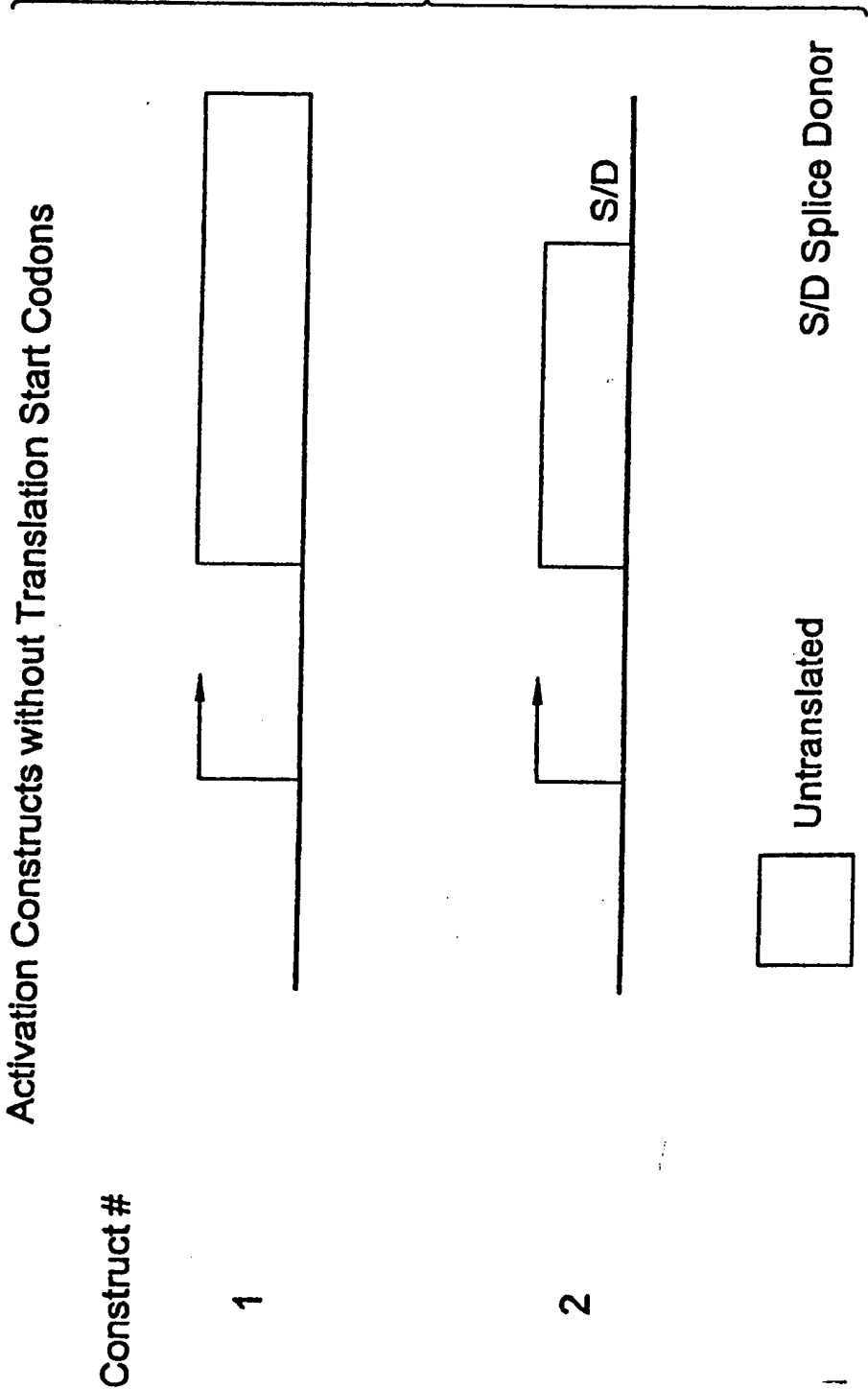
FIG. 1.

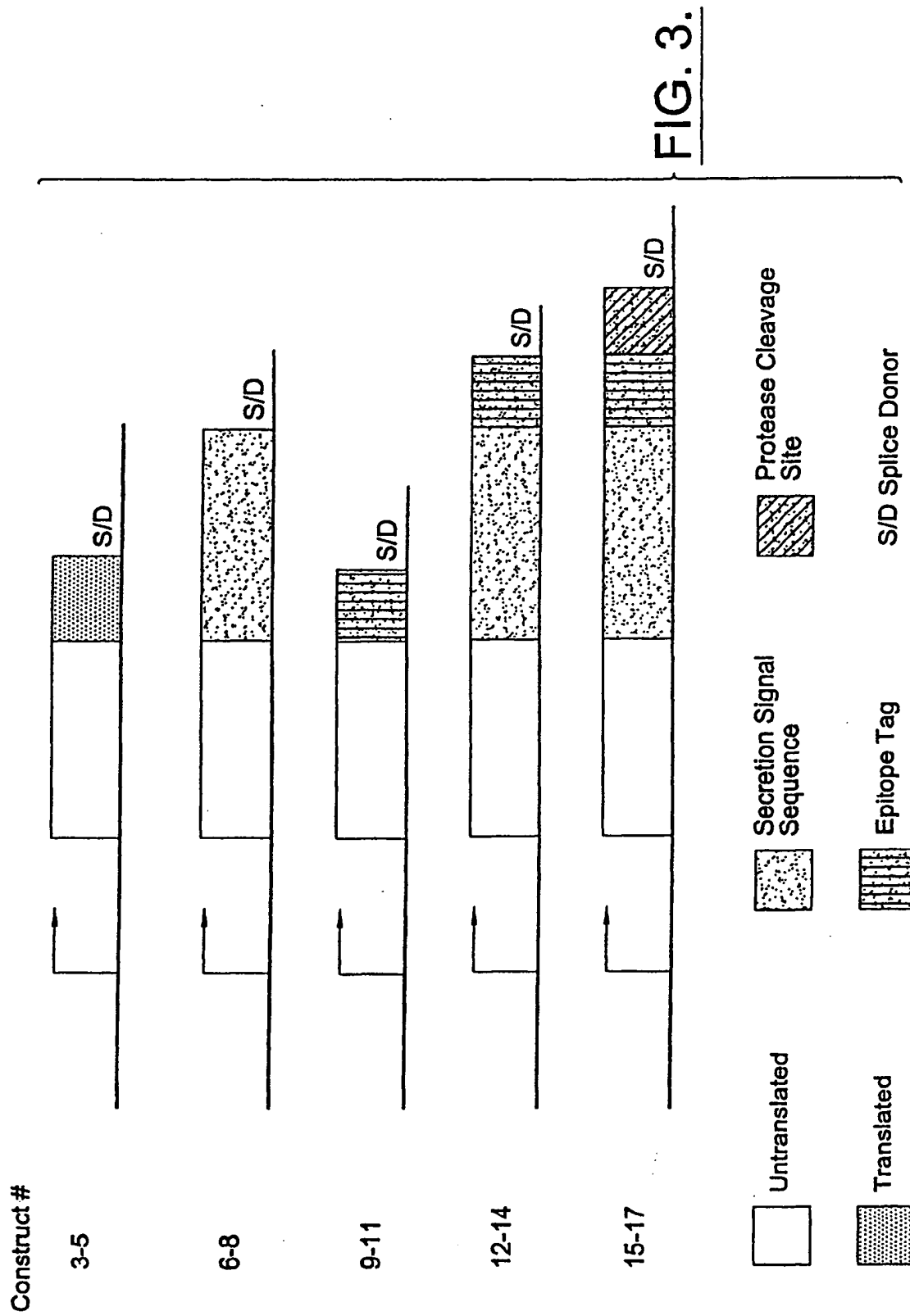
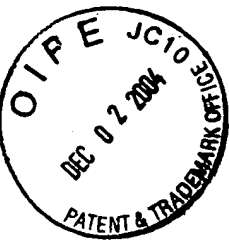


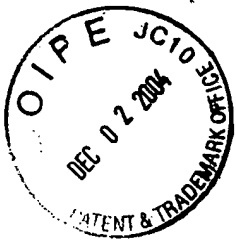


REPLACEMENT
DRAWINGS

FIG. 2.







REPLACEMENT
DRAWINGS

pRIG-1

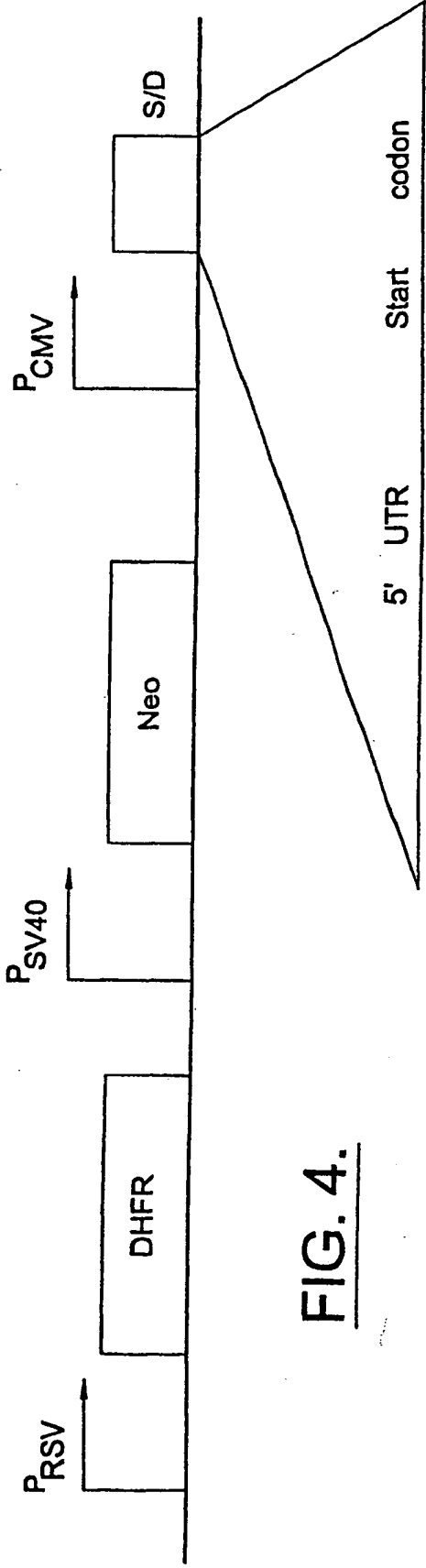
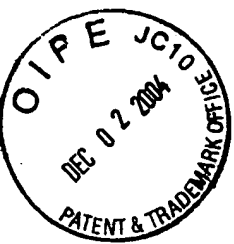


FIG. 4.



REPLACEMENT
DRAWINGS

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AGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGT
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TATGTTCCCATAGTAACGCCAATAG
GGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGC
AGTACATCAAGTGTATCATATGCCA
AGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCC
AGTACATGACCTTACGGGACTTTCC
TACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTT
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AGCGGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATTGACGTCAATGGGAC
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GACTTTCCAAAATGTCGTAAACAACCTGCGATCGCCCGCCCCGTTGACGCAAATGGG
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CGCAGTCAGTGCTTCTGACACAACAGTCTCGAACTTAAGCTGCAGTGACTCTCTT
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GCGAATTCCAAGCTTGAGTATTCTA
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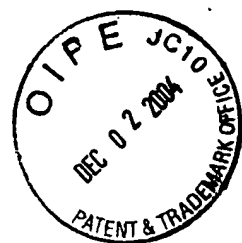
FIG. 5A.



REPLACEMENT
DRAWINGS

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GCTCCTGCCGAGAAAGTATCCATCA
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GAGCATCAGGGGCTCGCGCCAGCCGA
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TTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCC
TCGTGCTTTACGGTATCGCCGCTCC
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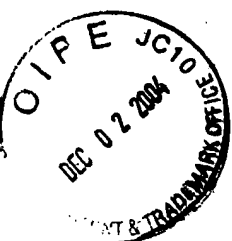
FIG. 5B.



REPLACEMENT
DRAWINGS

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CCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGC
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TGTCAGAGGTTTTACCGTCATCACCAGAACGCGCGAGACGAAAGGGCCTCGTGA
TACGCTATTTTTATAGGTTAATGT
CATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGC
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GCTATGTGGCGCGGTATTATCCCGT
ATTGACGCCGGGCAAGAGCAACTCGGTGCGCGCATACACTATTCTCAGAATGACT
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GGGGGATCATGTAACCTCGCCTTGAT
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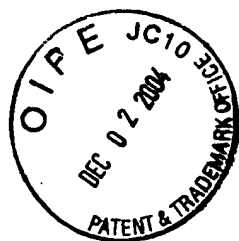
FIG. 5C.



REPLACEMENT
DRAWINGS

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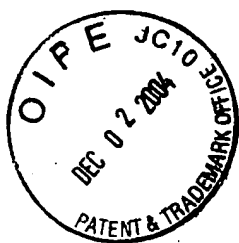
FIG. 5D.



REPLACEMENT
DRAWINGS

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GGGACTTTCCATTGACGTCAATGGGTGGAGTATTACGGTAAACTGCCCACTTGG
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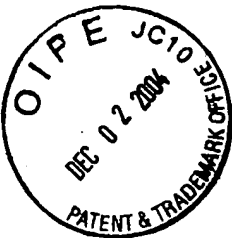
FIG. 6A.



REPLACEMENT
DRAWINGS

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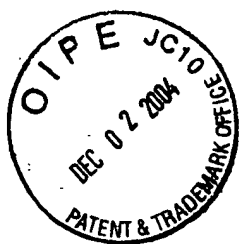
FIG. 6B.



REPLACEMENT
DRAWINGS

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GCGGAACCCCTATTTGTTTATTTTT
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TGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGGCGCATTTTGCCTT
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CCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTT
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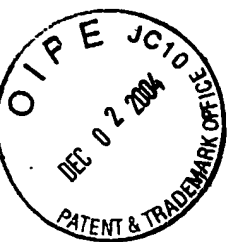
FIG. 6C.



REPLACEMENT
DRAWINGS

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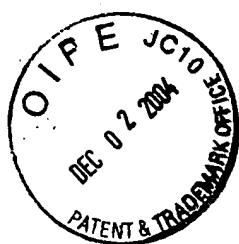
FIG. 7A.



REPLACEMENT
DRAWINGS

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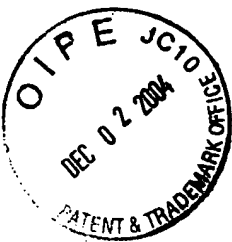
FIG. 7B.



REPLACEMENT
DRAWINGS

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FIG. 7C.



REPLACEMENT
DRAWINGS

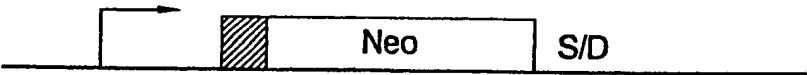


FIG. 8A.

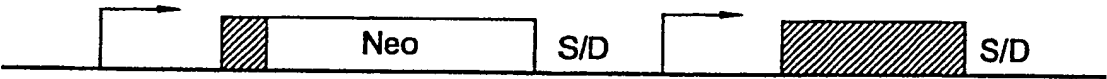


FIG. 8B.

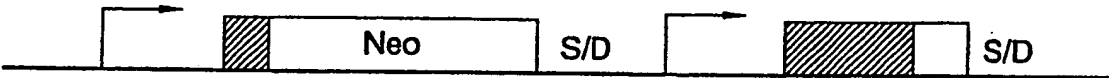


FIG. 8C.

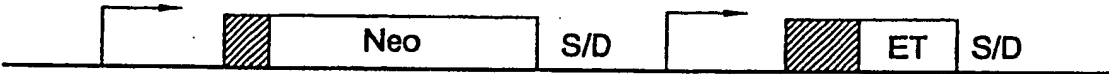


FIG. 8D.

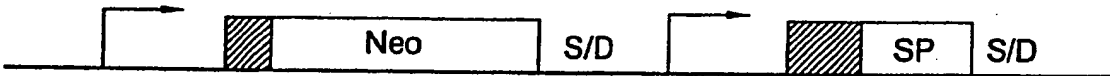


FIG. 8E.

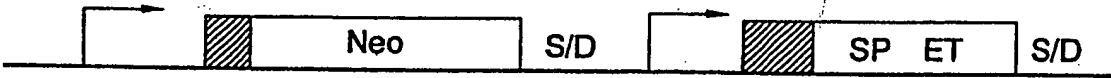
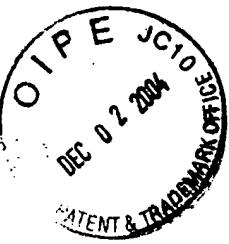


FIG. 8F.



REPLACEMENT
DRAWINGS

FIG. 9A.



FIG. 9B.



FIG. 9C.

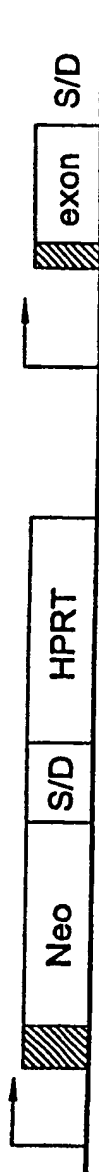


FIG. 9D.

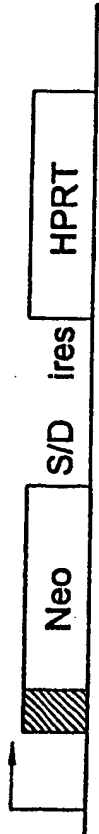
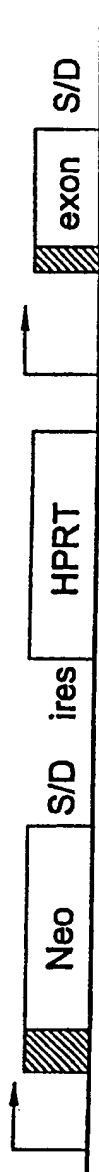
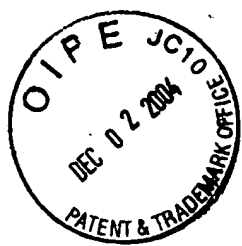


FIG. 9E.

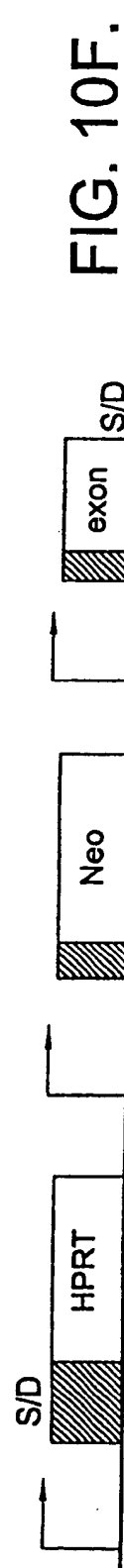
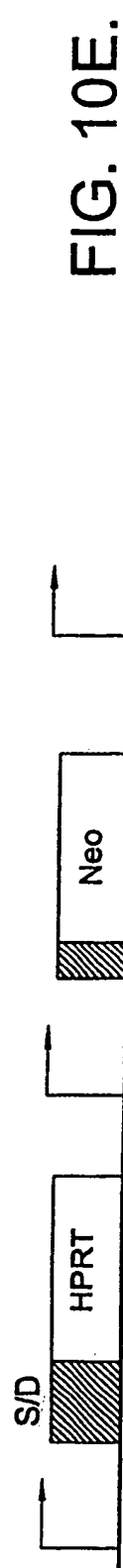
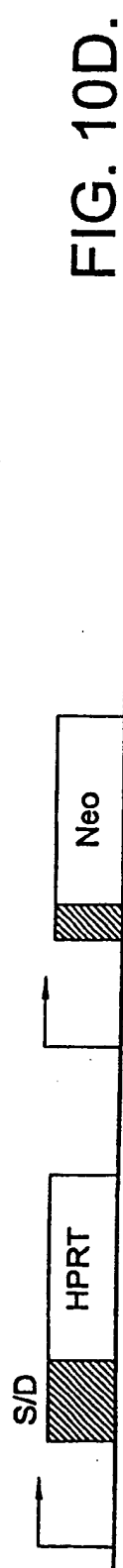


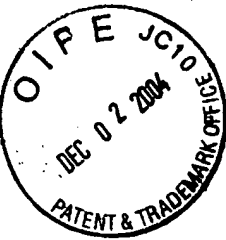
FIG. 9F.





REPLACEMENT
DRAWINGS





REPLACEMENT
DRAWINGS

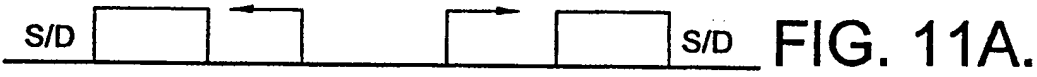
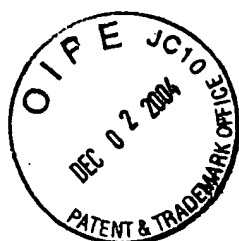


FIG. 11B.



FIG. 11C.



REPLACEMENT
DRAWINGS



FIG. 12A.



FIG. 12B.



FIG. 12C.



FIG. 12D.



FIG. 12E.

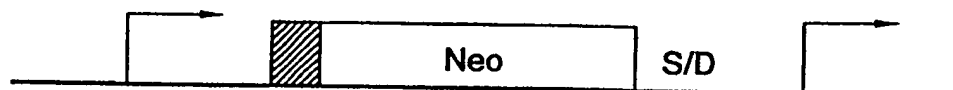


FIG. 12F.

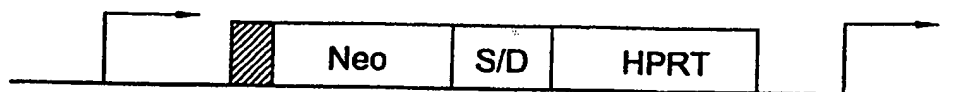


FIG. 12G.

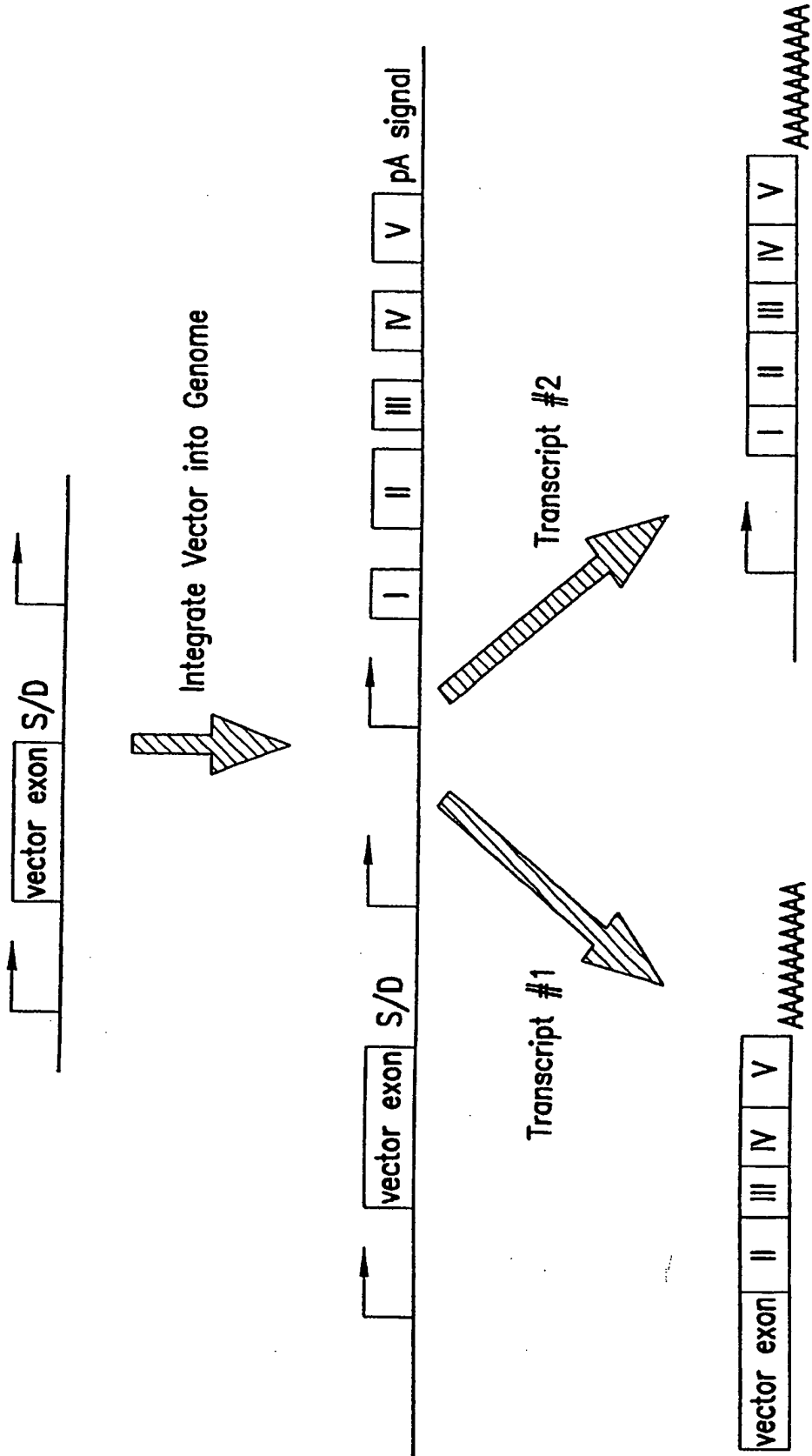
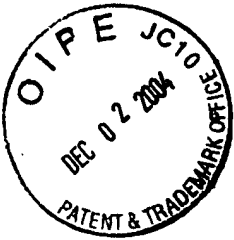
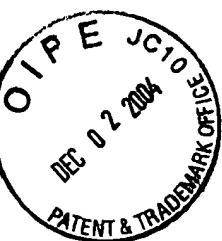


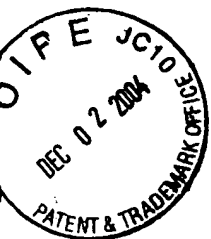
FIG. 13.



REPLACEMENT
DRAWINGS

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FIG. 14A.

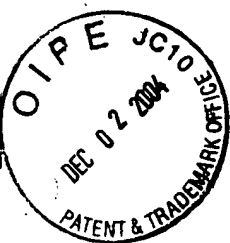


REPLACEMENT
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GAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAACCGCTGGTATCTTTATAGTCTGTG
GGGTTTCCGCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTA
TGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCTTGGCCTTTTGCTGGCCTTTTGCTCAC
ATGGCTCGAC

FIG. 14B.

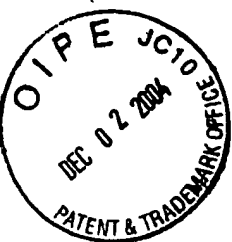
REPLACEMENT DRAWINGS



REPLACEMENT
DRAWINGS

CTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTA
TCCATCATGGCTGATGCAATGCGGGGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGAC
CACCAAGCGAAACATCGCATCGAGCGAGCACGTA CTGGATGGAAGCCGGTCTTGTCGATCA
GGATGATCTGGACGAAGAGCATCAGGGGGCTCGCGCCAGCCGAACGTTCGCCAGGCTCAAGG
CGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCA
TGGTGGAAAATGGCCGCTTTTCTGGATT CATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCT
ATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGGCAATGGGCTGAC
CGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCAGCGCATCGCCTTCTATCGCCTTC
TTGACGAGGcaTTCTga tggaggtagCGGCCGCTAACCTGGTTGCTGACTAATTGAGATGCATGCTTT
GCATACTTCTGCCTGCTGGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACA
GCTGGTTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTTGTTAAAA
TTCGCGTTAAATTTTGTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATC
CCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAACAAGAG
TCCACTATTAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATG
GCCCCAC

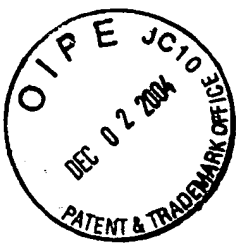
FIG. 15B.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCT
ATTGGCCATTGCATACGTTGTATCTATATCATAATATGTACATTTATATTGGCTCATGTCCAAT
ATGACCGCCATGTTGGCATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATT
AGTTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCCGCTGGCTG
ACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT
AGGGACTTTCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCACATTGGCAGTACA
TCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCCCCGCTG
GCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGT
CATCGCTATTACCATGGTGATGCGGGTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTTGA
CTCACGGGGATTTCCTAAGTCTCCACCCCATGACGTCAATGGGAGTTTTGTTTTGGCACCAAAA
TCAACGGGACTTTCCTAAGTCTCCACCCCATGACGTCAATGGGAGTTTTGTTTTGGCACCAAAA
CGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCggttagtgaacgtCAGATCACTAGAA
GCTTTATTGCGGTAGTTTTATCACAGTTAAATTGCTAACGCAGTCAGTGCTTCTGACACAACAG
TCTCGAAGTTAAGCTGCAGTGACTCTCTTAaattccacctggctacagGTGAGTACTCGTACTCTTAAG
AGAGGCCTATCTGGCCAGTTAGCAGTCGAAGAAAGAGTTTAAAGAGAGCCGAAACAAGCGCT
CATGAGCCCGAAGTGGCGAGCCCGATCTTCCCATCGGTGATGTCCGGCGATATAGGCGCCAG
CAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGG
ACGGGTGTGGTCCGCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGAC
TGGGCGGCGGCCAAAGCGGTCCGACAGTGTCCGAGAACGGGTGCGCATAGAAATTGCATCA
ACGCATATAGCGCTAGATCCTTGCTAGAGTCGAGATCTGTGAGCCATGTGAGCAAAAGGCC
AGCAAAAGGCCAGGAACCGTAAAAGGCCGCGTTGCTGGCGTTTTCCATAGGCTCCGCCCC
CCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATA
AAGATACCAGGCGTTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCTGTTCGACCCCTGCCGCT
TACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTCTCATAGCTCACGCTGT
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CAGCCCGACCGCTGCGCCTTATCCGGTAAGTATCGTCTTGAGTCCAACCCGGTAAGACACGAC
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TACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACACTATTTGGTATCTG
CGCTCTGTCTGAAGCAGTTACCTTCGGAAAGAGTGGTAGCTCTTGATCCGGCAAAACAA
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TAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTatcggtgtgaaatccg
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aga tct tggcgcggaaggaaccca tcaagtt tactttgcagggctgtcaacct taccagat AAAAGTGCTCATCATTTGGAAACGCT
TCAATTCTGAGGCGGAAAGAACCAGCTGTGGAATGTGTGTGTCAGTTAGGGTGTGGAAGTCCCC
AGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTG
GAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCA
ACCATAGTCCCCGCCCTAACTCCGCCCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTTCT
CCGCCCCATGGCTGACTAATTTTTTTTATTTATGTCAGAGGCCGAGGCCCTCGGCCCTGTGAG
CTATTCCAGAAGTAGGAGGCTTTTTTGGAGGCCCTAGGCTTTTGGCAAAAGCTTGATCTCT
TCTGACACAACAGTCTCGAAGTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGAC
GCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGGCTATGACTGGGCACAACAGACAAT
CGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTGAGCGCAGGGGGCGCCGGTTCTTTTTGTCAA
GACCGACCTGTCCGGTGCCTGAATGAAGTGCAGGACGAGGCAGCGCGCTATCGTGGCTGG
CCACGACGGGCGTTCTTGGCGAGCTGTGCTGACGTTGTCTGTAAGCGGGAAGGGACTGG
CTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCTGTCTATCTACCTTGCTCCTGCCGAGAAA-

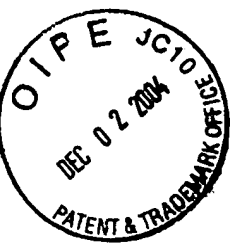
FIG. 16A.



REPLACEMENT
DRAWINGS

GTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATT
GACCACCAAGCGAAACATCGCATCGAGCGAGCACGTAACCGGATGGAAGCCGGTCTTGTCGA
TCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACGTGTTGCCAGGCTCA
AGGCGCGCATGCCCCGACGGCGAGGATCTCGTCTGTGACCCATGGCGATGCCTGCTTGCCGAAT
ATCATGGTGGAAAATGGCCGCTTTCTGGATTTCATCGACTGTGGCCGGCTGGGTGTGGCGGAC
CGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGC
TGACCGCTTCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGAGCGCATCGCCTTCTATCGC
CTTCTTGACGAGCCATTCTGCTGGATGGCTACAGGTGCGAGCCCTGGCGTCTGATAGTGTGTGTGAACCGGTTGACCTGTATT
TTTGTATACCTAACTATTGCTGAGGATTTGGAAAGGGTGTATTTCTCTATGAGCTAACTATGGACAGGACTGACGCTTGTCTGAGATGTGTGAAGGAG
ATGGGAGGCACTCATTTGTAGCCCTGTGTGCTCAAGGGGGCTATAAATTTCTGCTGAGCTGTGGATTACAACAGGACTGAAATAGAAATAGTGTAT
GATCCATTTCTATGAGTGTAGATTTTATCAGACTGAGAGCTATTGTATGAGGCTCAACAGGGGACAATAAGTAAATGGTGGAGATGATCTCTCAACTTA
ACTGGAAAGAAATGCTTGTATTGTGAAGAATAAATGAGACTGGCAAAACAATGAGACTTGTCTTCTTGGTCAGGCAATATAACCAAGATGGTCAAGG
TCGCAAGCTTGTGGTGAAGGACCCACGAAGTGTGGATAAGCCAGACTTGTGGATTTGAAATTCAGACAAATTTGTGTAGGATATGCTCTGA
CTATAAGAAATTAATTCAGGATTTGAATCATGTTGTGCTATTGTAAGCTGGAAAGCAAAATACAAAGCTAAACCGGCCGTAACCTGGT
TGCTGACTAATTGAGATGCATGCTTTGCATACCTCTGCCTGCTGGGGAGCCTGGGGACTTTCC
ACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCTCAGAAGGTACACAGGCGAAA
TTGTAAGCGTTAATATTTTGTAAATTCGCGTTAAATTTTGTAAATCATGCTCATTTTTTAA
CCAATAGGCCGAAATCGGCAAAATCCCTTATAAAATCAAAAGAATAGACCGAGATAGGGTTGA
GTGTTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGG
CGAAAAACCGTCTATCAGGGCGATGGCCAC

FIG. 16B.



REPLACEMENT
DRAWINGS

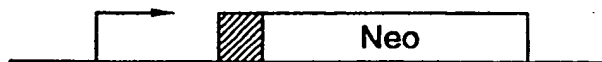


FIG. 17A.



FIG. 17B.



FIG. 17C.



FIG. 17D.



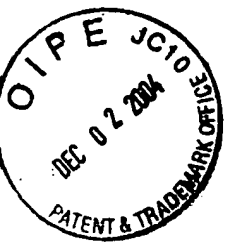
FIG. 17E.



FIG. 17F.



FIG. 17G.



REPLACEMENT
DRAWINGS

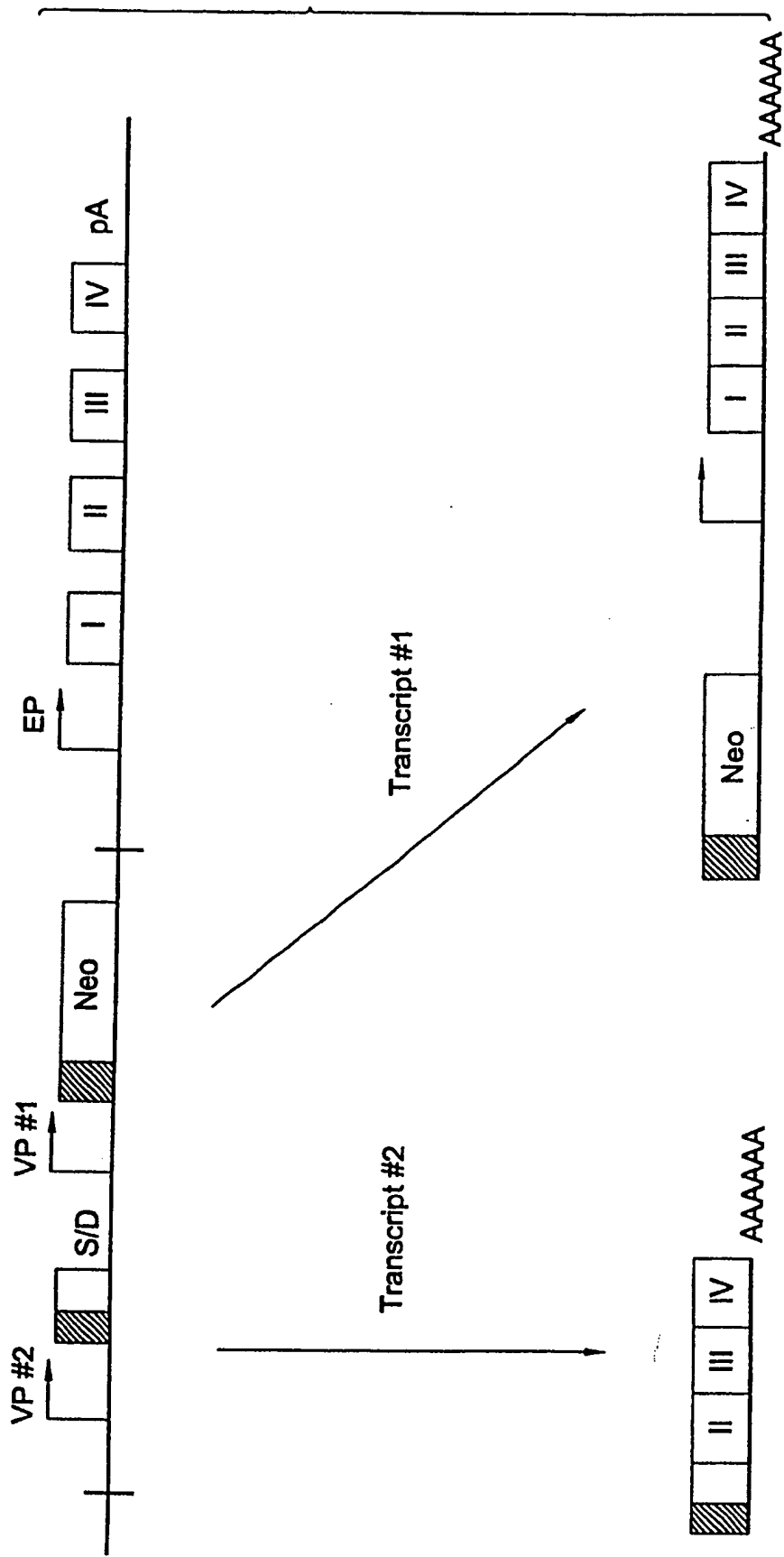


FIG. 18.

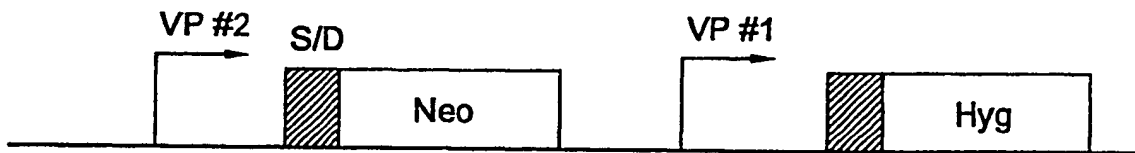
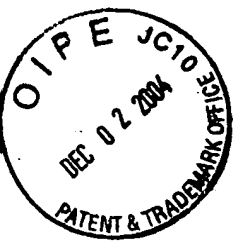
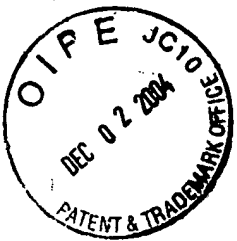


FIG. 19.



REPLACEMENT
DRAWINGS

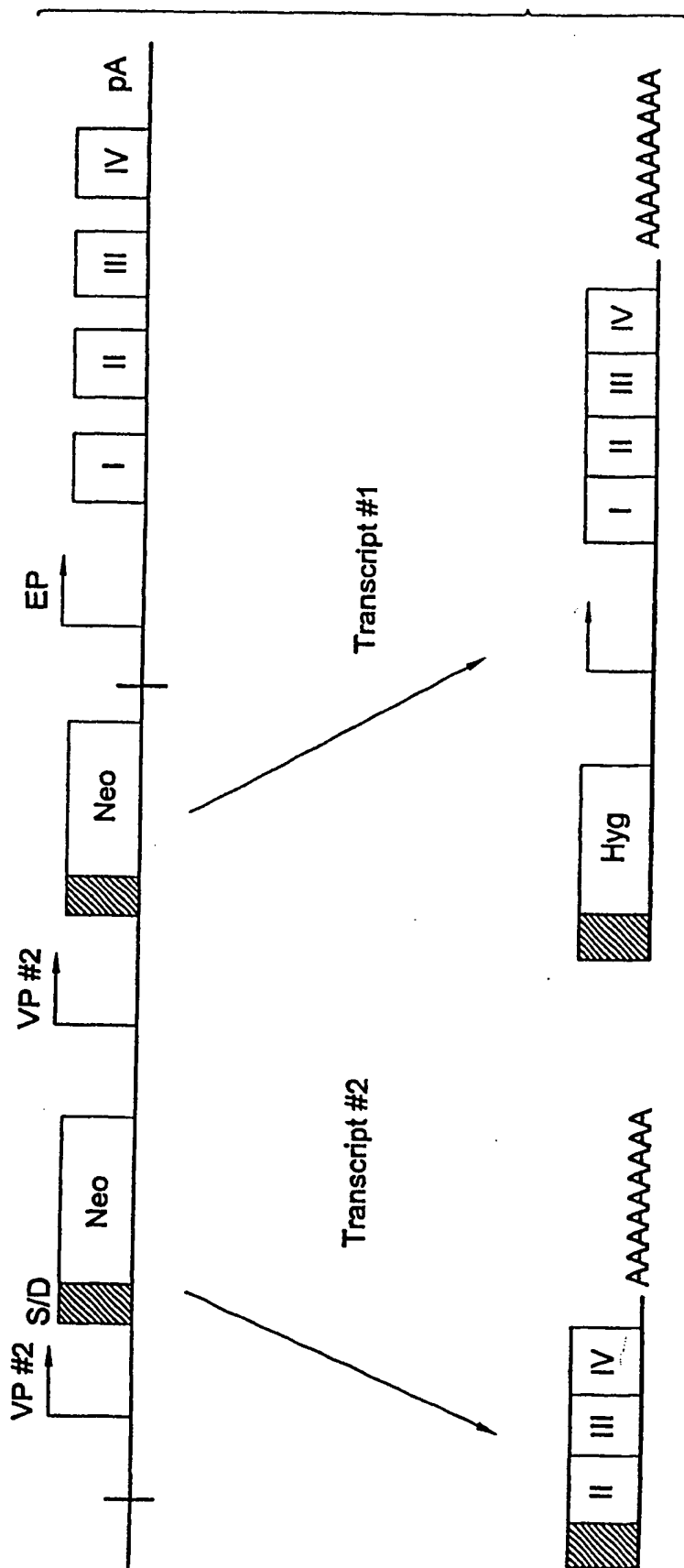
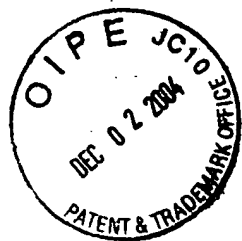


FIG. 20A.



REPLACEMENT
DRAWINGS

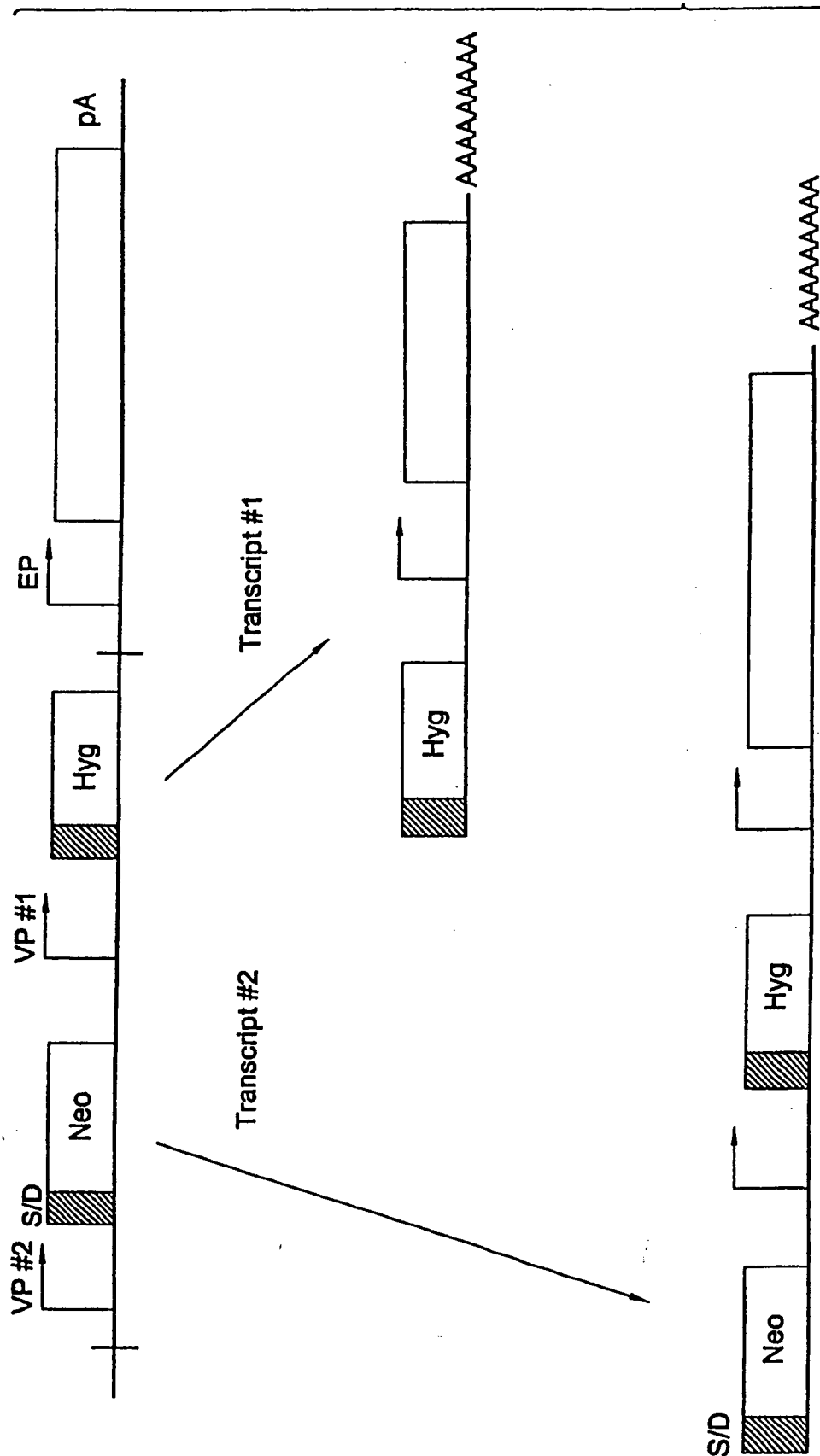


FIG. 20B.

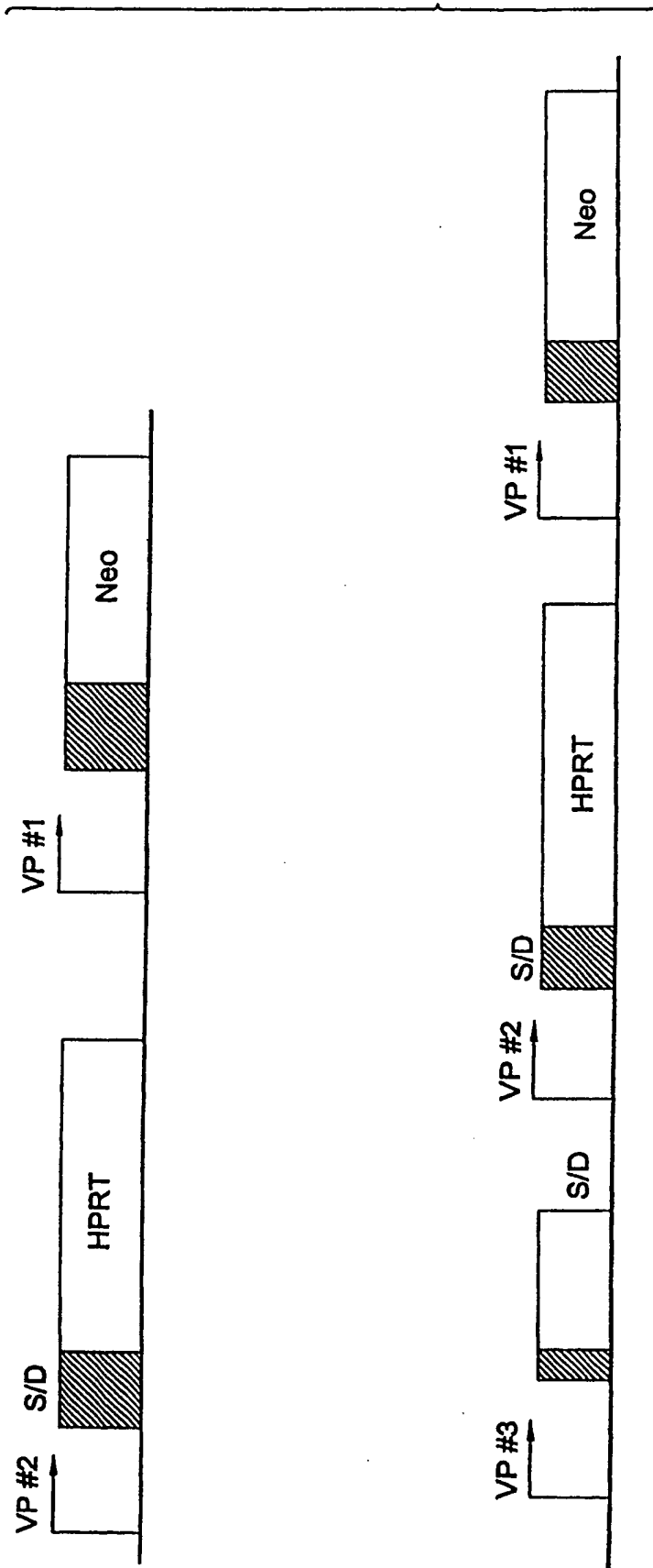
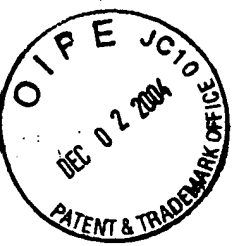
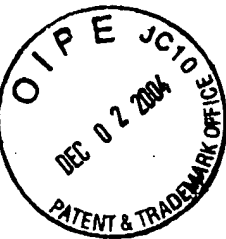


FIG. 21.



REPLACEMENT
DRAWINGS

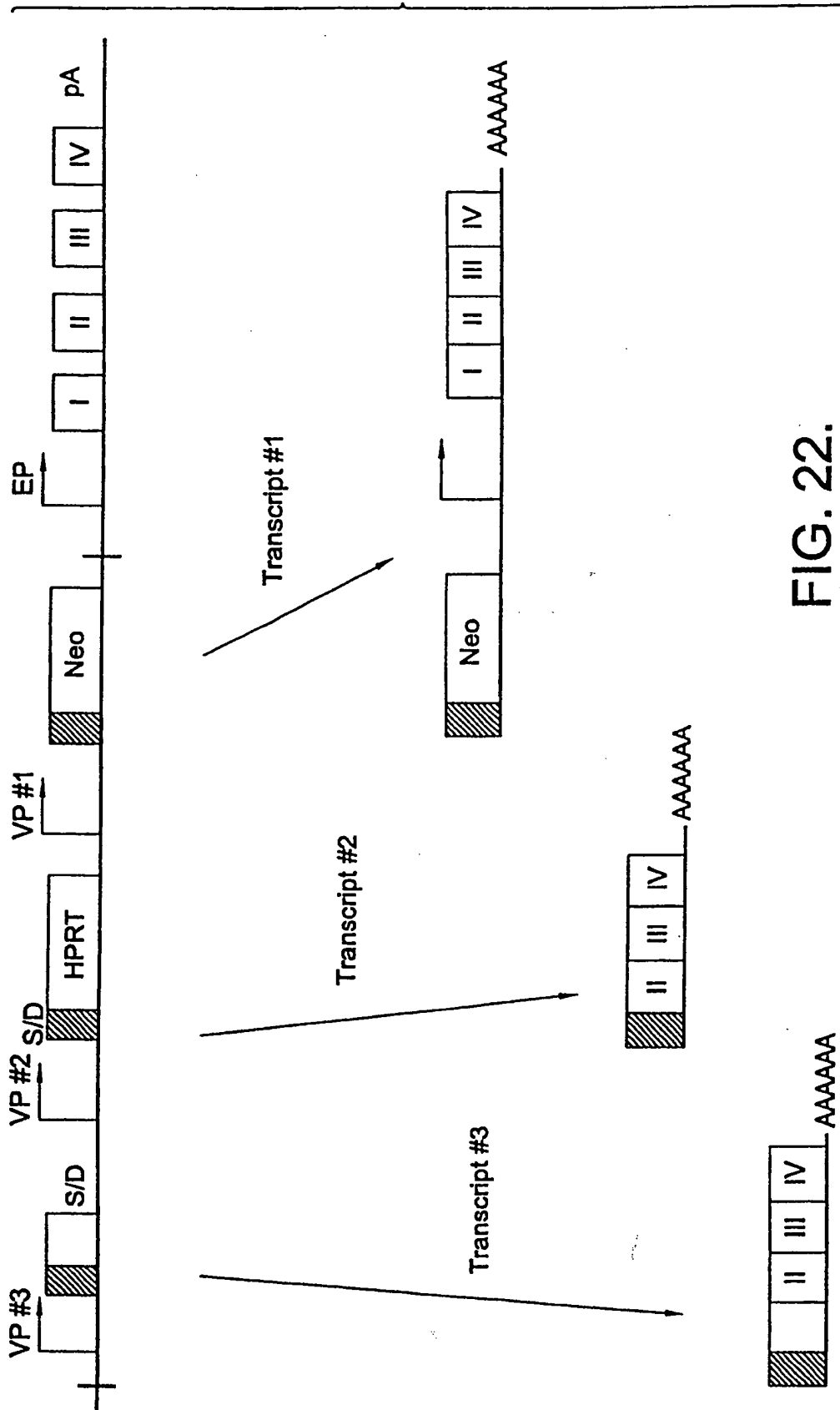
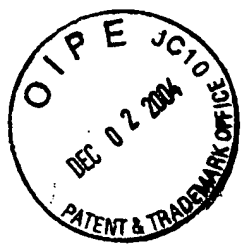
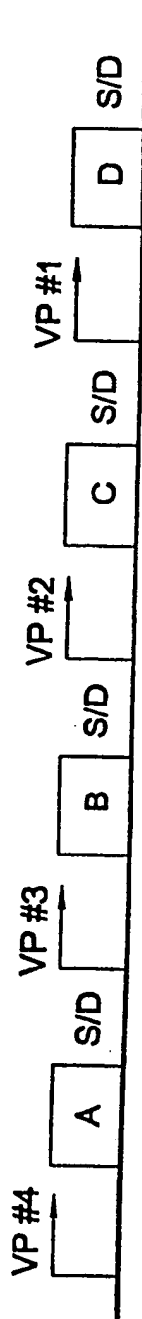


FIG. 22.



REPLACEMENT
DRAWINGS



Exon A and Flanking Intron

5' UTR	ACCCAGGTGATG	Vector intron
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FIG. 23A.

Exon B and Flanking Intron

5' UTR	ACCATGCAGGTGATG	Vector intron
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FIG. 23B.

Exon C and Flanking Intron

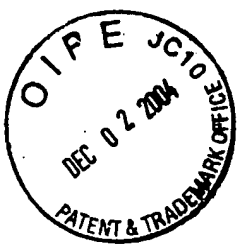
5' UTR	ACCATGGCAGGTGATG	Vector intron
--------	------------------	---------------

FIG. 23C.

Exon D and Flanking Intron

5' UTR	ACCATGGCAGGTGATG	Vector intron
--------	------------------	---------------

FIG. 23D.



REPLACEMENT
DRAWINGS

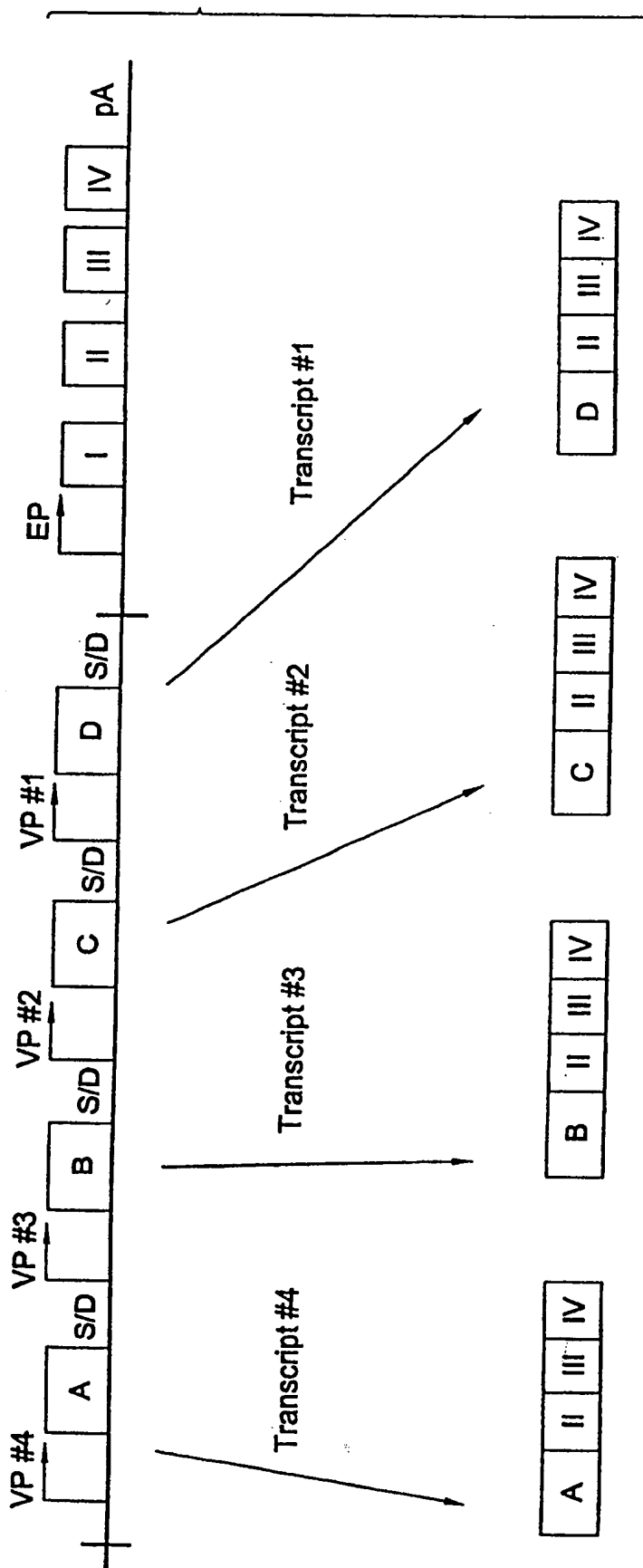
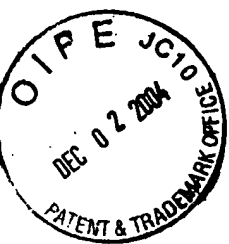


FIG. 24.



REPLACEMENT
DRAWINGS



FIG. 25A.



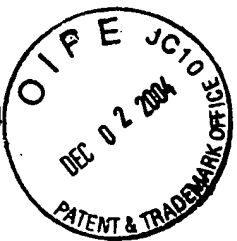
FIG. 25B.



FIG. 25C.



FIG. 25D.



REPLACEMENT
DRAWINGS

Gene A

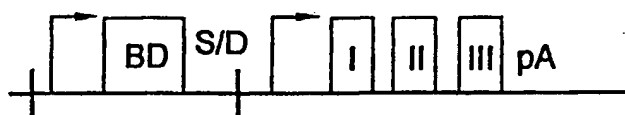


FIG. 26.

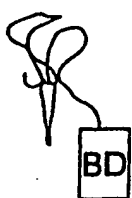
Gene B



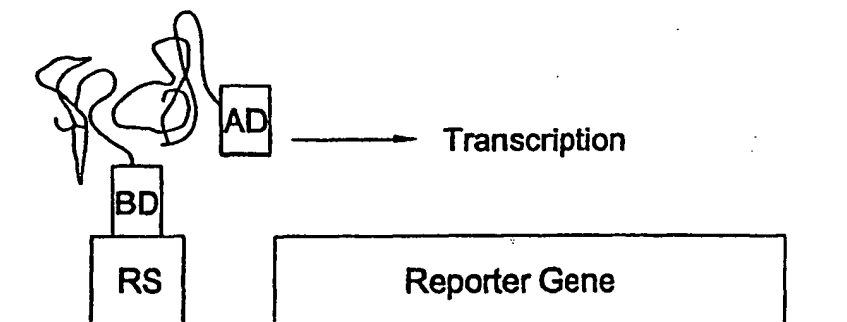
Transcription and Splicing

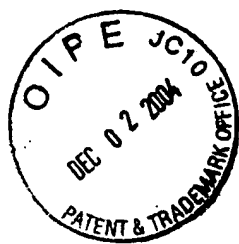


Translation



Detection of
Protein Interaction





REPLACEMENT
DRAWINGS

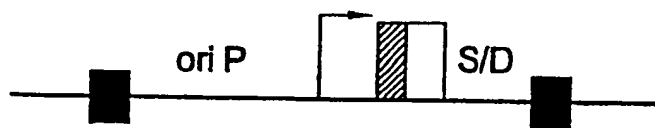


FIG. 27A.

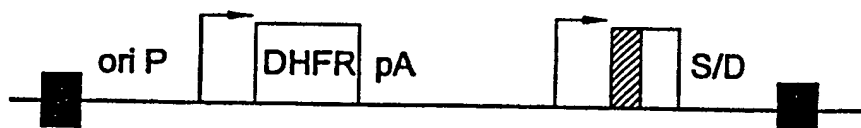


FIG. 27B.

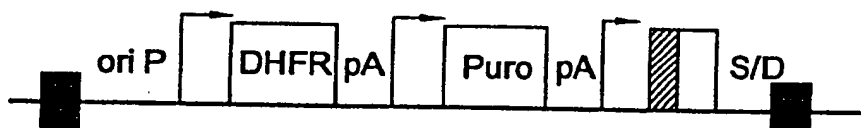


FIG. 27C.

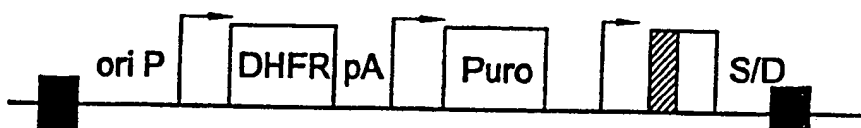


FIG. 27D.

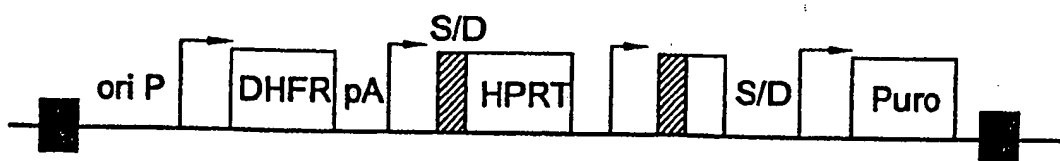


FIG. 27E.

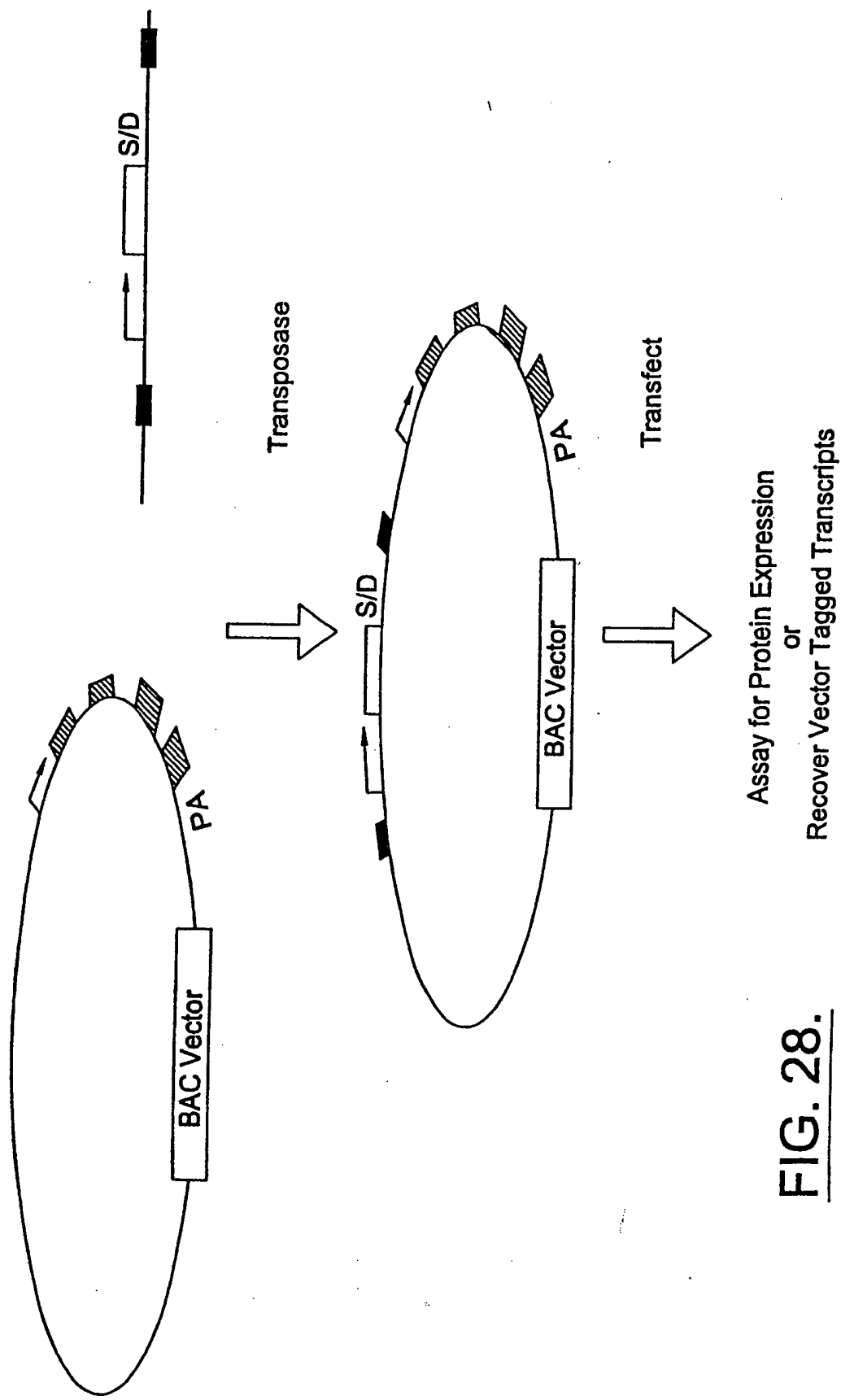
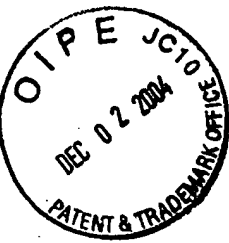


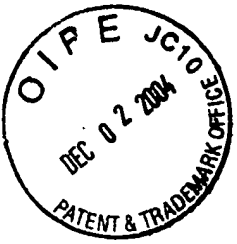
FIG. 28.



REPLACEMENT
DRAWINGS

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CCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCTAATCAAGTT
TTTTGGGGTCGAGGTGCCGTAAGCACTAAATCGGAACCCTAAAGGGAGC
CCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGA
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ATGTACATTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGA
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CCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCAG
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ATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGA
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GGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAAC
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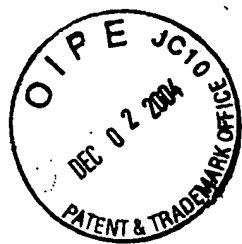
FIG. 29A.



REPLACEMENT
DRAWINGS

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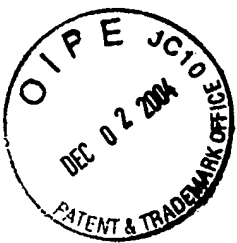
FIG. 29B.



REPLACEMENT
DRAWINGS

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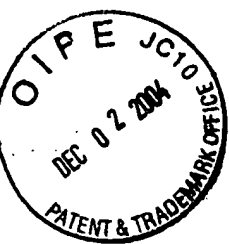
FIG. 30A.



REPLACEMENT
DRAWINGS

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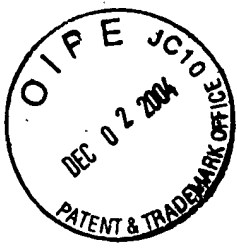
FIG. 30B.



REPLACEMENT
DRAWINGS

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FIG. 30C.

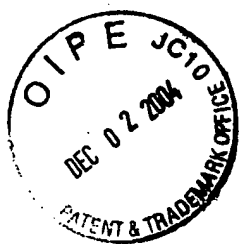


REPLACEMENT
DRAWINGS

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ccaaa TTAATTAAAGGCGCGCCgctctcttggctaggagtcacgtagaaggaactaccgacgaaggaactt
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atgtcgtcttaacacattga tgcgtctccctttggaa tggcccc tggacccggcccaaacctggcccgttaagggggtc
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FIG. 31A.

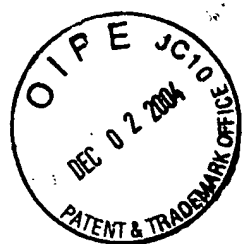
REPLACEMENT DRAWINGS



REPLACEMENT
DRAWINGS

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CCGCATGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG
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CCGCTTCAGTGACAACGTGAGCACAGCTGCGCAAGGAACGCCCGTCGTG
GCCAGCCACGATAGCCGCGCTGCCTCGTCTTGCAAGTTCATTACGGGCACCG
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TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT
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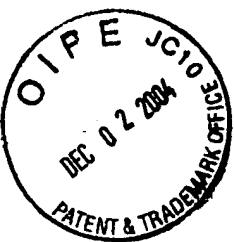
FIG. 31C.



REPLACEMENT
DRAWINGS

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CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
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gc aaaa taag tagaca tgg tctgg a tagttgg tggcag tct t gttta taaggaa gcca tga a tca cccaggcca tcttaaac
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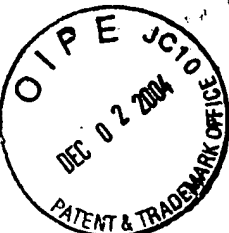
FIG. 32A.



REPLACEMENT
DRAWINGS

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c g t c t c c c c t t t g g a a t g g c c c t g g a c c c g g c c a c a c c t g g c c c g t a a g g g a g t c c a t t g t c t g t t a t t t c a t g g t c t t
t t t a c a a a c t c a t a t a t t g c t g a g g t t t g a a g g a t g c g a t t a a g g a c c t t g t t a t g a c a a g c c g c t c c t a c c t g c a a t a t c
a g g g t g a c t g t g t g c a g c t t t g a c g a t g g a g t a g a t t g c c t c c c t g g t t t c c a c c t a t g g t g g a a g g g c t g c c g c g g a g
g g t g a t g a c g g a g a t g a c g g a g a t g a a g g a g g t g a t g g a g a t g a g g g t g a g g a a g g g c a g g a g t g a t g t a a c t t g t t a
g g a g a a c g c c c t c a a t c g t a t t a a a g c c g t g t a t t c c c c g c a c t a a a g a a t a a a t c c c a g t a g a c a t c a t g c g t g c t g t t
g g t g t a t t t c t g g c c a t c t g t c t t g t c a c c a t t t t c g t c c t c c c a c a t g g g g c a a t t g g g c a t a c c c a t g t t g t c a g t c a c t c
a g c t c c g c g t c a a c a c c t t c t g c g t t g g a a a c a t t a g c g a c a t t a c c t g g t g a g c a t c a g a c a t g c g a c g g c t t a g
c c t g g c c t c c t t a a a t t c a c c t a a g a a t g g g a g c a a c c a g c a t g c a g g a a a g g a c a a g c a g c g a a a t t c a c g c c c c t
t g g g a g g t g g c g g c a t a t g c a a a g g a t a g c a c t c c c a c t c a c t a c t g g g t a t c a t a t g c t g a c t g t a t a t g c a t g a g g a t a
g c a t a t g c t a c c c g g a t a c a g a t t a g g a t a g c a t a t a c t a c c c a g a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a g a t
t a g g a t a g c c t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c a g a t a g a t t a g g a t a g c a t a t g c t a c c c a g a
t a t a g a t t a g g a t a g c c t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t
t c c a g a t a t t t g g g t a g t a t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c t a a t c t c t a t t a g g a t a g c a t a t g c t
a c c g g a t a c a g a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a g g a t a g
c c t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a
g g a t a g c c t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t t g g g t a g t a t a t g c t a c c c a t g g c a a c a
t t a g c c c a c c g t g c t c a g c g a c c t c g t g a a t a t g a g g a c c a c a c c c t g t g c t t g g c g c t c a g g c g a a g t g t g t a
a t t g t c c t c c a g a t c g c a g c a a t c g c g c c c t a t c t t g g c c g c c c a c c t a c t t a t g c a g g a t t c c c g g g t g c c a t t a
g t g g t t t g t g g g c a a g t g g t t g a c c g a g t g g t t a g c g g g t t a c a a t c a g c c a a g t t a t a c a c c c t a t t t t a c a g t c c a
a a a c c g a g g g c g g c g t g t g g g g c t g a c g c g t g c c c c a c t c c a c a a t t c a a a a a a a g a g t g g c c a c t t g t c t t g t
t t a t g g g c c c a t t g g c g t g g a g c c c g t t a a t t t t c g g g g t g t t a g a g a c a a c c a g t g g a g t c c g c t g c t g c g g c g t
c c a c t c t c t t c c c c t t g t t a c a a a t a g a g t g t a a c a a c a t g g t t c a c c t g t c t t g g t c c c t g c c t g g g a c a c a t c t t a a t a a c c
c c a g t a t c a t a t t g c a c t a g g a t t a t g t g t g c c c a t a g c c a t a a a t t c g t g t g a g a t g g a c a t c c a g t c t t t a c g g c t t g t c c
c c a c c c a t g g g a t t t c t a t t g t t a a g a t a t t c a g a a t g t t t c a t t c c t a c a c t a g t a t t a t t g c c a a g g g g t t g t g a g g g t
a t a t t g g t g t c a t a g c a a a t g c c a c c a c t g a a c c c c c g t c c a a a t t t a t t c t g g g g c g t c a c c t g a a a c c t g t t t t c g a
g c a c c t c a c a t a c a c c t t a c t g t t c a c a a c t c a g c a g t t a t t c t a t t a g c t a a c g a a g g a g a a t g a a g a a g c a g g c g a a g
a t t c a g g a g a g t t c a c t g c c c g t c c t t g a t c t t c a g c c a c t g c c c t t g t a c t a a a a t g g t t c a c t a c c c t c g t g g a a t c t g
a c c c c a t g t a a a t a a a a c c g t g a c a g t c a t g g g g t g g g a g a t a t c g c t g t c c t t a g g a c c c t t t a c t a a c c c t a a t t c g a
t a g c a t a t g c t t c c c g t t g g t a a c a t a t g c t a t t g a a t t a g g g t t a g t c t g g a t a g t a t a t a c t a c t a c c c g g g a g c a t a t g
c t a c c c g t t a g g g t t a a c a a g g g g c c t a t a a a c a c t a t t g c t a a t g c c c t c t t g a g g g t c c g c t t a t c g g t a g c t a c a
g g c c c c t c t g a t t g a c g t t g g t g t a g c c t c c g t a g t c t t c c t g g g c c c t g g g a g g t a c a t g t c c c c a g c a t t g g t g t a a
g a g c t t a g c c a a g a g t t a c a c a t a a a g g c a a t g t t g t g t g c a g t c c a c a g a c t g c a a a g t c t g c t c c a g g a t g a a g c c
a c t a g t g g t t g g c a a a t g t g c a c a t c c a t t a t a a g g a t g t c a a c t a c a g t c a g a g a a c c c c t t g t g t t g g t c c c c c c c g t
g t c a c a t g t g g a a c a g g g c c c a g t t g g c a a g t t g t a c c a c c a c t g a a g g a t t a c a t g c a c t g c c c c g a a t a c a a a c
a a a a g c g c t c c t c g t a c c a g c g a a a a g g g c a g a g a t g c c g t a g t c a g g t t a g t t c g t c c g g c g g g G C G G C
C G C A A G G C G C G C C G G A T C C A C A G G A C G G G T G T G G T C G C C A T G A T C G C G T A
G T C G A T A G T G G C T C C A A G T A G C G A A G C G C G A G C A G G A C T G G G C G G C G G C C A A
A G C G G T C G G A C A G T G C T C C G A G A A C G G G T G C G C A T A G A A A T T G C A T C A A C
G C A T A T A G C G C T A G A T C C T T G C T A G A G T C G A G A T C T G T C G A G C C A T G T G A C
C A A A A G G C C A G C A A A A G G C C A G G A A C C G T A A A A A G G C C G C G T T G C T G G C G
T T T T T C C A T A G G C T C C G C C C C C C T G A C G A G C A T C A C A A A A A T C G A C G C T C A
A G T C A G A G G T G G C G A A A C C C G A C A G G A C T A T A A A G A T A C C A G G C G T T T C C
C C C T G G A A G C T C C C T C G T G C G C T C T C C T G T T C C G A C C C T G C C G C T T A C C G G
A T A C C T G T C C G C C T T T C T C C C T T C G G A A G C G T G G C G C T T T C T C A T A G C T C A
C G C T G T A G G T A T C T C A G T T C G G T G T A G G T C G T T C G C T C C A A G C T G G G C T G T
G T G C A C G A A C C C C C G T T C A G C C C G A C C G C T G C G C C T T A T C C G G T A A C T A T
C G T C T T G A G T C C A A C C C G G T A A G A C A C G A C T T A T C G C C A C T G G C A G C A G C C
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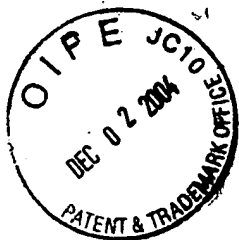
FIG. 32B.



REPLACEMENT
DRAWINGS

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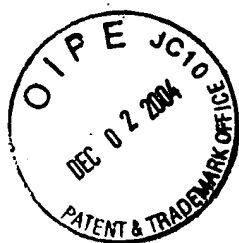
FIG. 32C.



REPLACEMENT
DRAWINGS

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ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCCGCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCCGCTGGCATTATGCCCAGTACATG
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ACGACCTACTGATTAACGGCCAGATCTAAGCTAGCTTCCTGAAAGATGAAG
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GATTTTTCTCTCGAGAAGACCTTGACATGATTTTGAAAATGGATTCTTTACA
GGATATAAAAGCATTGTTAACAGGATTATTTGTACAAGATAATGTGAATAA
AGATGCCGTCACAGATAGATTGGCTTCAGTGGAGACTGATATGCCTCTAAC
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FIG. 33A.

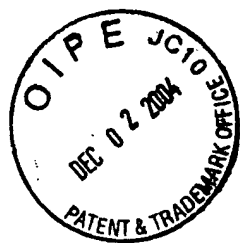


REPLACEMENT
DRAWINGS

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FIG. 33B.

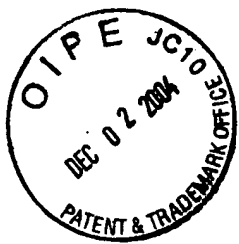
REPLACEMENT DRAWINGS



REPLACEMENT
DRAWINGS

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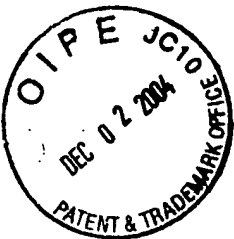
FIG. 33D.



REPLACEMENT
DRAWINGS

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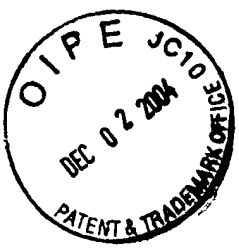
FIG. 34A.



REPLACEMENT
DRAWINGS

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aggagagcgttaccgcaaaaacacagataaaaaggaagccagcttctgaatgagccttctgttttattgaatgctg
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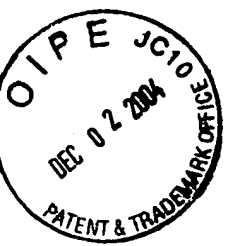
FIG. 34B.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAA
TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAAATATGTA
CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG
ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCG
CCCAACGACCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATG
ACCTTACGGGACTTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT
ATTACCATGGTGTATGCGGTTTTTGGCAGTACACCAATGGGCGTGGATAGCG
CTTTGACTCACGGGGATTTCCTCAAGTCTCCACCCCATTTGACGTCAATGGGAG
TTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCTGAACAACCTG
CGATCGCCCCGCCCCGTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGA
GGTCTATATAAGCAGAGCTcggttagtgaaacgtcagatcactgaattctgacgacactcgaattaaacggc
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GTTAATTGTCAACAGCTCATGCATGACGTCCCGGGAGCAGACAAGCCCCacc
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AAGAGAGGCCTATCTGGCCAGTTAGCAGTCGAAGAAAGAAGTTTAAAGAGA
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CGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTG
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CGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGA
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GCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCAC
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GCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCG
CTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTACGCCCCGACCGCTGCGC
CTTATCCGGTAACATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC
GCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAG
GCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAA
GAGTTGGTAGCTCTTGATCCGGCAAACAACACCGCTGGTAGCGGTGGTT
TTTTTGT TGTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAA
GATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA
CGTTAAGGGATT TTTGGTCA TGAGATTATCAAAAAGGATCTTACCTAGATC
CTTTTatcgggtgtgaaa taccgcagatgcgttaaggagaaaa taccgcatcaggaaa ttgtaagcgttaa taattcag
aagaactcgtcaagaaggcga tagaaggcga tgcgtgcgaa tcgggagcggcga taccgtaagcagcaggaagcg
gtcagccca ttcgcgcgaagctcttcagcaa ta tccgggtagccaa cgccta tgcctga tagcgg tccgcacacccag
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gacaggaga tcc tgc cccggcacttcgccaa tagcagccag tcccttcccgcttcagtgacaacgtcagacacagctgc
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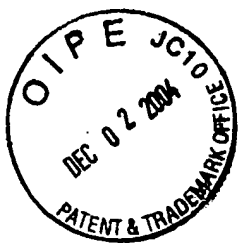
FIG. 35A.



REPLACEMENT
DRAWINGS

ggcttgcacaaaagaaccgggcccctgcgtgcagccggaacacggcggaatgcagcagccgaattgtctgtgt
gcccagtcagccgaatagcctctccaccaagcgccggagaacctgcgtgcaatccaatctgttcaatcatgcgaac
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GCGGAAAGAACCAGCTGTGGAATGTGTGTGTCAGTTAGGGTGTGGAAAGTCC
CCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCA
GCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCA
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CATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATCTCCGCCCATGGCTG
ACTAATTTTTTTTATTTATGCAAGAGGCCGAGGCCGCCTCGGCCTCTGAGCT
ATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAA
GCTTGATTCTTCTGACACAACAGTCTCGAACTTAAGGCTAGAGCCACCATG
ATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAG
GCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGC
CGTGTTCCGGCTGTGAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGA
CCTGTCCGGTGCCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGT
GGCTGGCCACGACGGGCGTTCTTGTGCGCAGCTGTGCTCGACGTTGTCACTG
AAGCGGGAAGGGACTGGCTGCTATTGGGCGAACTGCCGGGGCAGGATCTC
CTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCA
ATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAA
GCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGT
CGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAC
TGTTCCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCTGTG
ACCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAATAATGGCCGCTTT
TCTGGATT.CATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGAC
ATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCT
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CTTTCCACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCCTCAG
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AAATTTTTGT.TAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAA
AATCCCTTATAAATCAAAGAATAGACCGAGATAGGGTTGAGTGTTGTTCC
AGTTTGGAAACAAGAGTCCACTATTAAGAACGTGGACTCCAACGTCAAAG
GGCGAAAACCGTCTATCAGGGCGATGGCCAC

FIG. 35B.



REPLACEMENT
DRAWINGS

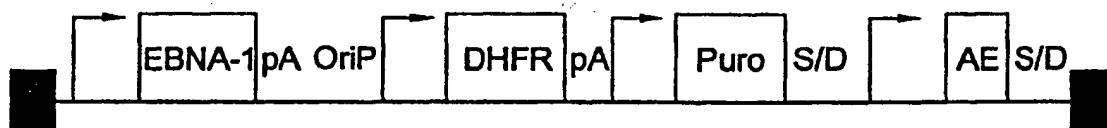
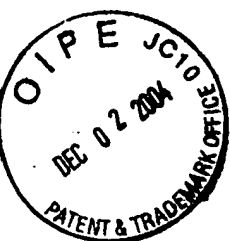


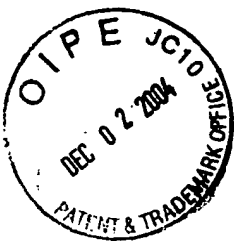
FIG. 36.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA
TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA
CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG
ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGGTTACATAACTTACGGTAAATGGCCCCGCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCCGCTGGCATTATGCCCACTACATG
ACCTTACGGGACTTTCCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT
ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG
GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATGACGTCAATGGGAG
TTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTG
CGATCGCCCGCCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGA
GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG
ACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGAACTGTCTTAGTG
ACAACTATCGATTTCCACACATTATACGAGCCGATGTTAATTGTCAACAGC
TCATGCATGACGTCCCGGGAGCAGACAAGCCCGACCATGGCTCGAGTAAT
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ca tttgtctgtat tttca tggctcttttacaac tca tata tttgtgaggtttgaaggatgcga ttaaggacctgttta tga caa-

FIG. 37A.



REPLACEMENT
DRAWINGS

TTTTTGTGGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAA
GATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAACTCA
CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC
CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAAATACCGCAT
CAGGAAATTGTAAGCGTTAATAATTGAGAAGAACTCGTCAAGAAGGCGAT
AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAGCAGCAGG
AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC
AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG
AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG
CCATGGGTACGACGAGATCCTCGCCGTGGGCGATGCTCGCCTTGAGCCTG
GCGAACAGTTTCGGCTGGCGCGAGCCCTGATGCTCTTCGTCCAGATCATCC
TGATGGACAAGACCGGCTTCCATCCGAGTACGTGCTCGCTCGATGCGATGT
TTCGCTTGGTGGTTCGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCG
CCGCATTGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG
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CCGCTTCAGTGACAACGTGAGCACAGCTGCGCAAGGAACGCCCGTCGTG
GCCAGCCACGATAGCCGCGCTGCCTCGTCTTGCAAGTTCATTACGGGCACCG
GACAGGTCGGTCTTGACAAAAAGAACCGGGCGCCCTGCGCTGACAGCCG
GAACACGGCGGCATCAGAGCAGCCGATTGTCTGTTGTGCCAGTCATAGCC
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CCTGCGCCATCAGATCCTTGCGCGCGAGAAAGCCATCCAGTTTACTTTGCA
GGGCTTGTCACCTTACCAGATAAAAGTGCTCATCATTGGAAAAttcaattcgt
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GTTAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAG
GCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGG
GTTGAGTGTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGA
CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCAC

FIG. 37C.